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NEWS 7	DEC 21	IPC search and display fields enhanced in CA/CAplus with the IPC reform
NEWS 8	DEC 23	New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/ USPAT2
NEWS 9	JAN 13	IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10	JAN 13	New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to INPADOC
NEWS 11	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS 12	JAN 17	IPC 8 in the WPI family of databases including WPIFV
NEWS 13	JAN 30	Saved answer limit increased
NEWS 14	JAN 31	Monthly current-awareness alert (SDI) frequency added to TULSA

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FILE 'HOME' ENTERED AT 12:56:17 ON 10 FEB 2006

=> file reg
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION

FULL ESTIMATED COST 0.21 0.21

FILE 'REGISTRY' ENTERED AT 12:56:26 ON 10 FEB 2006
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STRUCTURE FILE UPDATES: 8 FEB 2006 HIGHEST RN 873837-20-8
DICTIONARY FILE UPDATES: 8 FEB 2006 HIGHEST RN 873837-20-8

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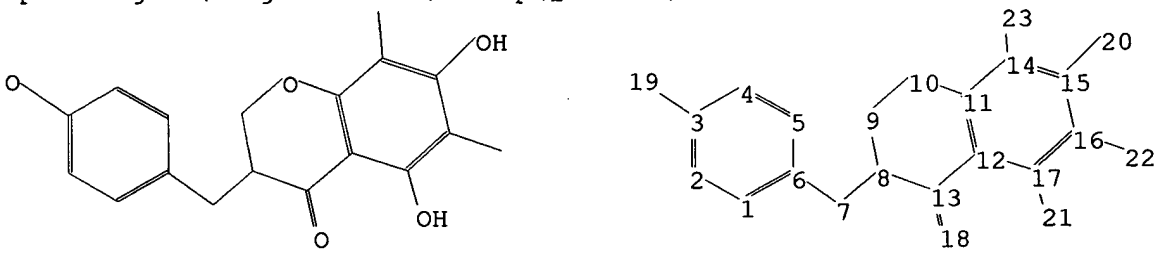
****
* *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
* *
****

Structure search iteration limits have been increased. See HELP SLIMITS for details.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

http://www.cas.org/ONLINE/UG/regprops.html

=>
Uploading C:\Program Files\Stnexp\Queries\10536675.str



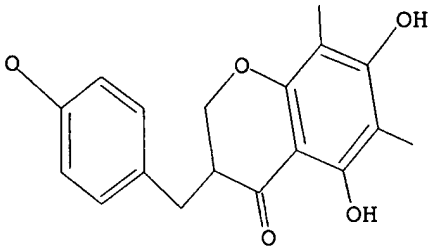
chain nodes :
7 18 19 20 21 22 23
ring nodes :
1 2 3 4 5 6 8 9 10 11 12 13 14 15 16 17
chain bonds :
3-19 6-7 7-8 13-18 14-23 15-20 16-22 17-21
ring bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-13 9-10 10-11 11-12 11-14 12-13 12-17 14-15 15-16 16-17
exact/norm bonds :
3-19 13-18 15-20 17-21
exact bonds :

6-7 7-8 8-9 8-13 9-10 10-11 12-13 14-23 16-22
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 11-12 11-14 12-17 14-15 15-16 16-17
isolated ring systems :
containing 8 :

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:CLASS 19:CLASS
20:CLASS 21:CLASS 22:CLASS 23:CLASS

L1 STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1 STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1
SAMPLE SEARCH INITIATED 12:56:50 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 17 TO ITERATE

100.0% PROCESSED 17 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 93 TO 587
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s l1 full
FULL SEARCH INITIATED 12:56:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 324 TO ITERATE

100.0% PROCESSED 324 ITERATIONS 8 ANSWERS
SEARCH TIME: 00.00.01

L3 8 SEA SSS FUL L1

=> file caplus
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
FULL ESTIMATED COST 166.94 167.15

FILE 'CAPLUS' ENTERED AT 12:57:00 ON 10 FEB 2006
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FILE COVERS 1907 - 10 Feb 2006 VOL 144 ISS 8
FILE LAST UPDATED: 9 Feb 2006 (20060209/ED)

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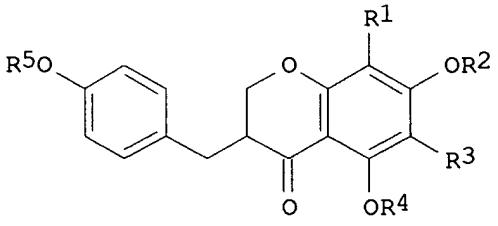
=> s l3 full
L4 21 L3

=> d ibib abs hitstr tot

L4 ANSWER 1 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:569362 CAPLUS
DOCUMENT NUMBER: 143:83212
TITLE: Skin-whitening compositions containing 4-n-butylresorcinol and benzopyran derivatives
INVENTOR(S): Tada, Akihiro; Kanamaru, Akiko
PATENT ASSIGNEE(S): Kyodo Kumiai Forest Nishikawa, Japan; Pola Chemical Industries, Inc.
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005170910	A2	20050630	JP 2003-416941	20031215

PRIORITY APPLN. INFO.: JP 2003-416941 20031215
OTHER SOURCE(S): MARPAT 143:83212
GI



I

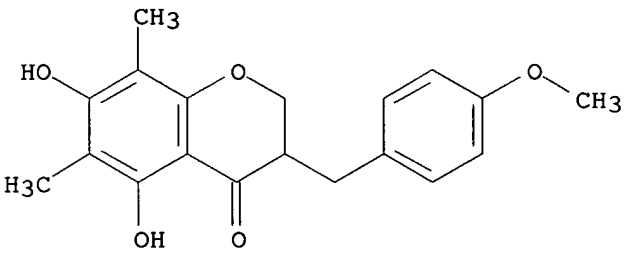
AB The invention relates to a skin composition, especially skin-whitening composition,
characterized by containing a compound I (R1 = C1-4 alkyl, alkyloxy, H; R2,R3,R4,R5 = C1-4 alkyl, H) or its salt, and 4-n-butylresorcinol. Thus, methylophiopogonanone B was extracted from Ophiopogon, and examined for its inhibitory effect on dendritic growth in cultured human melanocytes. The combination of methylophiopogonanone B and 4-n-butylresorcinol lightened color of cultured melanoma B-16 cells. Also, a skin-whitening cosmetic lotion containing methylophiopogonanone B 0.05, 4-n-butylresorcinol 0.3, and other ingredients to 100 % was formulated.

IT **74805-91-7P**, Methylophiopogonanone B
RL: COS (Cosmetic use); NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(skin-whitening compns. containing 4-n-butylresorcinol and benzopyran derivs.)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



L4 ANSWER 2 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:295071 CAPLUS
DOCUMENT NUMBER: 143:179768
TITLE: Determination of homoisoflavonoids in Ophiopogon japonicus by RP-HPLC
AUTHOR(S): Ye, Guan; Ye, Min; Guo, Dean; Huang, Chenggang
CORPORATE SOURCE: Shanghai Institute of Materia Medica, Shanghai Institutes for Biological Sciences, Chinese Academy of Sciences, Shanghai, 201203, Peop. Rep. China
SOURCE: Chromatographia (2005), 61(3/4), 121-125
CODEN: CHRGB7; ISSN: 0009-5893
PUBLISHER: Vieweg Verlag/GWV Fachverlage GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English

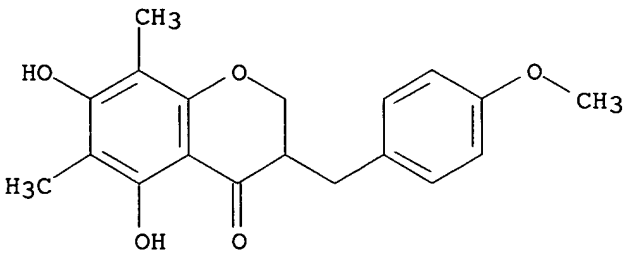
AB The homoisoflavonoid content of 14 samples of O. japonicus collected from different parts of China were investigated. Three principal homoisoflavonoids, methylophiopogonanone A, methylophiopogonanone B, and 6-aldehydoisoophiopogonanone A, were analyzed simultaneously by reversed-phase HPLC with a binary mixture of MeCN and 0.3% aqueous HOAc acid as mobile phase. The recovery of the method was 98.5-102.6% and good linearity was obtained for all the homoisoflavonoids over a relatively wide concentration range. The homoisoflavonoid content of O. japonicus varied significantly from species to species, and from locality to locality. The quality and identity of O. japonicus from the com. herbs can be determined from the homoisoflavonoid content.

IT **74805-91-7**, Methylophiopogonanone B
RL: ANT (Analyte); ANST (Analytical study)
(determination of homoisoflavonoids in Ophiopogon japonicus by RP-HPLC)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



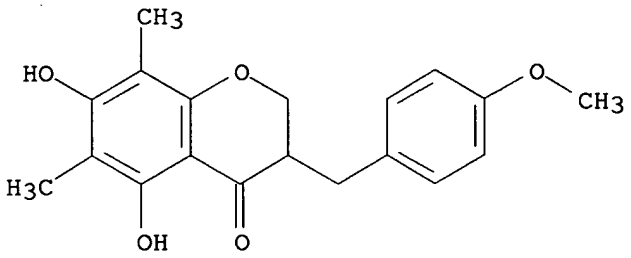
REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:124970 CAPLUS
DOCUMENT NUMBER: 142:352127
TITLE: Analysis of homoisoflavonoids in Ophiopogon japonicus by HPLC-DAD-ESI-MSn
AUTHOR(S): Ye, Min; Guo, Dean; Ye, Guan; Huang, Chenggang
CORPORATE SOURCE: The State Key Laboratory of Natural and Biomimetic Drugs, School of Pharmaceutical Sciences, Peking University, Beijing, Peop. Rep. China
SOURCE: Journal of the American Society for Mass Spectrometry (2005), 16(2), 234-243
CODEN: JAMSEF; ISSN: 1044-0305
PUBLISHER: Elsevier Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The homoisoflavonoids in Ophiopogon japonicus (Thunb.) Ker-Gawler were analyzed by high-performance liquid chromatog.-diode array detection-electrospray ion trap tandem mass spectrometry (HPLC-DAD-ESI-MSn). Homoisoflavonoids gave prominent [M - H]- ions by electrospray ionization monitored in the neg. ion mode. They could be classified into two types depending on the fragmentation behavior of their [M - H]- ions in the ion trap mass analyzer. The [M - H]- ions of homoisoflavonoids with a saturated C2-3 bond underwent C3-9 bond cleavage to lose the B-ring, which was followed by the loss of a mol. of CO. The [M - H]- ions of homoisoflavonoids with a C2-3 double bond usually eliminated a CO mol. first, and then underwent the cleavage of C3-9 or C9-1' bonds. For homoisoflavonoids with a C-6 formyl group, however, the neutral loss of CO was the first fragmentation step; the presence of a methoxyl group at C-8 could lead to the cleavage of C-ring. No retro Diels-Alder (RDA) fragmentation characteristic for normal flavonoids was observed The above fragmentation rules were reported for the first time, and were implemented for the anal. of homoisoflavonoids in O. japonicus. The CHCl3-MeOH extract was separated on a Zorbax Extend-C18 column, eluting with a acetonitrile-0.3% acetic acid gradient. A total of 18 homoisoflavonoids, including seven new minor constituents, were identified or tentatively characterized based on the UV spectra and tandem mass spectra of the HPLC peaks.

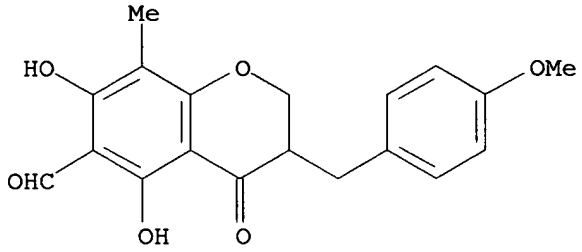
IT **74805-91-7P**, Methylophiopogonanone B **88700-30-5P** **212201-12-2P**
RL: BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation)
(anal. of homoisoflavonoids in Ophiopogon japonicus)
RN 74805-91-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

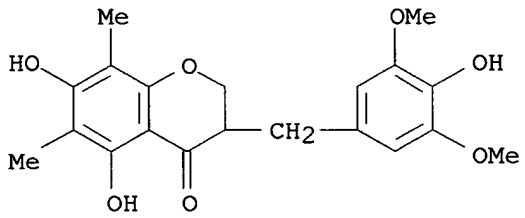


RN 88700-30-5 CAPLUS
CN 2H-1-Benzopyran-6-carboxaldehyde, 3,4-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-8-methyl-4-oxo-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



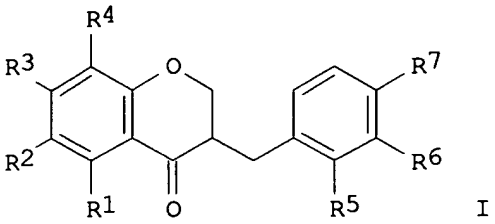
RN 212201-12-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxy-3,5-dimethoxyphenyl)methyl]-6,8-dimethyl- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:595355 CAPLUS
DOCUMENT NUMBER: 142:245775
TITLE: The chemical constituents of Vietnamese medicinal plant Ophiopogon japonicus
AUTHOR(S): Nguyen, Thi Hoang Anh
CORPORATE SOURCE: Institute of Chemistry, National Center for Natural Sciences and Technology, Na Noi, Vietnam
SOURCE: Tap Chi Phan Tich Hoa, Ly Va Sinh Hoc (2004), 9(1), 59-64
CODEN: TCPTAH
PUBLISHER: Vietnam Analytical Sciences Society
DOCUMENT TYPE: Journal
LANGUAGE: English

GI



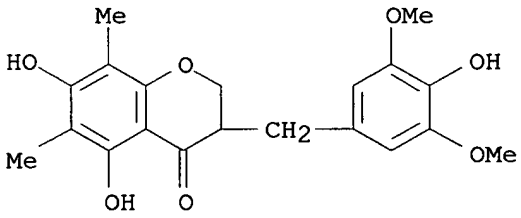
I

AB The chemical constituents isolated from the Vietnamese medicinal plant Ophiopogon Japonicus are reported. Chromatog. separation of the Et acetate extract yielded 13 homoisoflavonoids and a monoterpene, borneol. From the butanol extract six steroidal glycosides and monoterpene glycoside were isolated. Addnl., Me, Et, Bu α-fructofuranosides, Bu β-D-fructofuranoside were also obtained. Five of the homoisoflavonoids were identified to be new compds. and were elucidated as I (R1 = R3 = OH, R2 = R5 = OMe, R4 = H), I (R1 = R2 = R5 = OMe, R3 = OH, R4 = H), I (R1 = R5 = OH, R2 = Me, R3 = H, R4 = OMe), 2,5,7-trihydroxy-6-8-dimethyl-3-(3',4'-methylenedioxybenzyl)chroman-4 -one and 2,5,7-trihydroxy-6,8-dimethyl-3-(4'-methoxybenzyl)chroman-4-one.

IT **212201-12-2 588706-68-7 588706-70-1**
RL: NPO (Natural product occurrence); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(chemical constituents of Vietnamese medicinal plant Ophiopogon japonicus)

RN 212201-12-2 CAPLUS

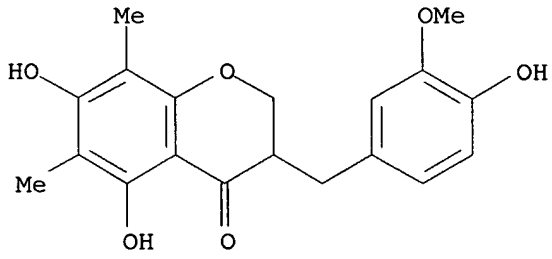
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxy-3,5-dimethoxyphenyl)methyl]-6,8-dimethyl- (9CI) (CA INDEX NAME)



RN 588706-68-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxy-3-methoxyphenyl)methyl]-6,8-dimethyl- (9CI) (CA INDEX NAME)

Currently available stereo shown.

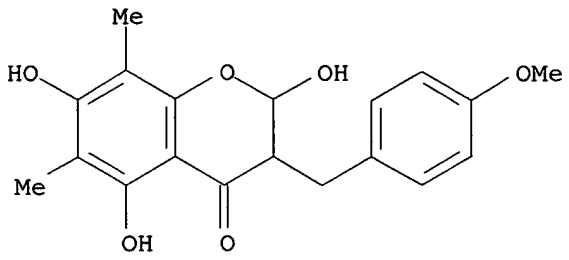


RN 588706-70-1 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-2,5,7-trihydroxy-3-[(4-

methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).
Currently available stereo shown.



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2004:490710 CAPLUS
DOCUMENT NUMBER: 141:42570
TITLE: Dendrite elongation inhibitor for melanocyte and skin preparation for external use containing the same
INVENTOR(S): Tada, Akihiro; Kanamaru, Akiko; Saeki, Yuko
PATENT ASSIGNEE(S): Pola Chemical Industries Inc., Japan
SOURCE: PCT Int. Appl., 21 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004050053	A1	20040617	WO 2003-JP15266	20031128
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1570837	A1	20050907	EP 2003-775959	20031128
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
US 2005288361	A1	20051229	US 2005-536675	20050527
PRIORITY APPLN. INFO.:			JP 2002-349376 A	20021202
			WO 2003-JP15266 W	20031128

OTHER SOURCE(S): MARPAT 141:42570

AB Disclosed are a dendrite elongation inhibitor for melanocytes which comprises benzopyranone derivs. and/or a salt thereof; and a skin preparation for external use which contains the compound or salt as an active ingredient. Methylophiopogonanone B (I) was isolated from root of Ophiopogon japonicus. A skin lotion for inhibiting melanin formation contained I 0.005, squalane 10, sorbitan sesquistearate 2, butylparaben 0.1, 1,3-butanediol 5, xanthan gum 0.1, alkyl methacrylate-acrylic acid copolymer 0.4, methylparaben 0.1, KOH 0.2, and distilled water balance to 100 %.

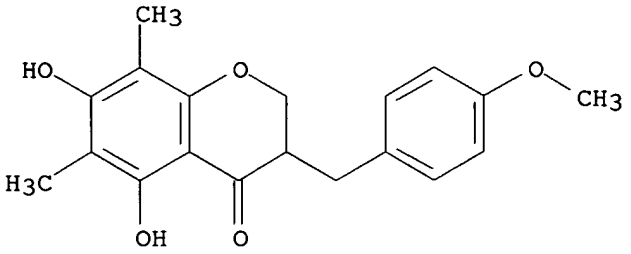
IT **74805-91-7P**, Methylophiopogonanone B

RL: COS (Cosmetic use); PAC (Pharmacological activity); PUR (Purification or recovery); BIOL (Biological study); PREP (Preparation); USES (Uses)
(melanocyte dendrite elongation inhibitors containing benzopyranone derivs.)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



REFERENCE COUNT: 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:387612 CAPLUS

DOCUMENT NUMBER: 140:420652

TITLE: Discrimination of maidong derived from Ophiopogon and Liriope species by rbcL sequences, and their chemical components and tuber anatomy

AUTHOR(S): Mao, Shiba; Yamaji, Hiroki; Kondo, Kenji; Ichiki, Hiroyuki; Sakakibara, Iwao; Terabayashi, Susumu; Amagaya, Sakae; Aburada, Masaki; Miyamoto, Ken-ichi

CORPORATE SOURCE: Pharmacognosy & Medicinal Resources Laboratory, Research Division, Tsumura and Co., Ibaraki, 300-1192, Japan

SOURCE: Natural Medicines (Tokyo, Japan) (2004), 58(1), 15-21
CODEN: NMEDEO; ISSN: 1340-3443

PUBLISHER: Japanese Society of Pharmacognosy

DOCUMENT TYPE: Journal

LANGUAGE: English

AB To discriminate the two kinds of Maidong derived from Ophiopogon or Liriope more reliably using genetic information, we sequenced partial rbcL genes of six species of Ophiopogon, three species and one variety of Liriope, and the Maidong from the markets. In this study, six genotypes, five in Ophiopogon and one in Liriope, were recognized. Then, it was possible to discriminate clearly by the rbcL genotype between the Maidong derived from Ophiopogon and Liriope species. We determined the contents of methylophiopogonanone A and B by HPLC that were reported as specific constituents to Maidong of Ophiopogon species. Both methylophiopogonanone A and B were contained only in the Maidong identified as Ophiopogon by the rbcL genotype. On the discrimination of the two kinds of Maidong, methylophiopogonanone A and B are also effective. Addnl., Maidong of Ophiopogon and Liriope, could be identified anatomically with 76% and 93% probability resp. by checking whether or not oil drops in exodermis and velamen occur in the tuber.

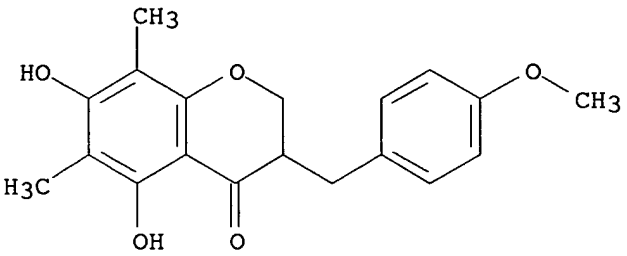
IT **74805-91-7**, Methylophiopogonanone B
RL: NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence)
(methylophiopogonanone A and B content in Ophiopogon and Liriope species)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-

methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:906044 CAPLUS
DOCUMENT NUMBER: 139:358799
TITLE: Antitussive agents and pharmaceutical compositions containing methylophiopogonanone
INVENTOR(S): Kamei, Akizo; Ichiki, Hiroyuki
PATENT ASSIGNEE(S): Tsumura and Co., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 4 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2003327529	A2	20031119	JP 2002-135539	20020510

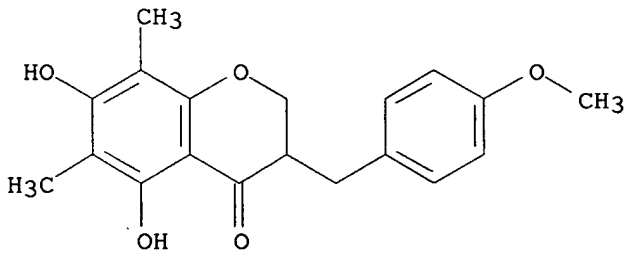
PRIORITY APPLN. INFO.: JP 2002-135539 20020510

AB The agents, which show little central side effects, contain methylophiopogonanone A (I) and/or B. I (extracted from ophiopogon) was administered to guinea pigs at 30 mg/ka to show 49.7% inhibition of capsaicin-induced cough.

IT **74805-91-7P**, Methylophiopogonanone B
RL: PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(antitussive agents containing methylophiopogonanone A or B)

RN 74805-91-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

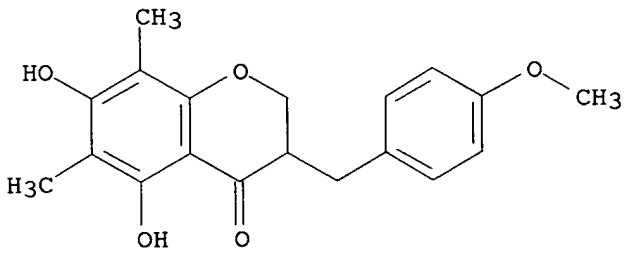


L4 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:871439 CAPLUS
DOCUMENT NUMBER: 140:232499
TITLE: Some homoisoflavonoidal compounds from Ophiopogon japonicus Ker-Gawler
AUTHOR(S): Nguyen, Thi Hoang Anh; Tran, Van Sung; Wessjohann, L.
CORPORATE SOURCE: Institute of Chemistry, NCST, Vietnam
SOURCE: Tap Chi Hoa Hoc (2003), 41(3), 117-121
CODEN: TCHHDC; ISSN: 0378-2336
PUBLISHER: Toa Soan Tap Chi Hoa Hoc
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Ophiopogon japonicus is a medicinal plant which is widely used in traditional Chinese medicine. In folk medicine of Vietnam it has been used as an expectorant, antitussive, and tonic. Six homoisoflavonoids were isolated by EtOAc extraction of the roots of O. japonicus. Their structures were elucidated by mass and NMR spectroscopy as ophiopogonanone A , methylophiopogonanone B, methylophiopogonanone A, 6-aldehydoisoophiopogoanone A, methylophiopogonone A and 5,7,2'-trihydroxy-6,8-dimethyl-3-(3'-4'-dimethylenedioxybenzyl)chromone.

IT **74805-91-7**, Methylophiopogonanone B
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(from Ophiopogon japonicus)
RN 74805-91-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2003:835805 CAPLUS
DOCUMENT NUMBER: 140:192416
TITLE: Specific inhibition of hypoxia-inducible factor (HIF)-1α activation and of vascular endothelial growth factor (VEGF) production by flavonoids
AUTHOR(S): Hasebe, Yuki; Egawa, Kiyoshi; Yamazaki, Yoko; Kunimoto, Setsuko; Hirai, Yasuaki; Ida, Yoshiteru; Nose, Kiyoshi
CORPORATE SOURCE: Department of Microbiology, Showa University School of Pharmaceutical Sciences, Tokyo, 142-8555, Japan
SOURCE: Biological & Pharmaceutical Bulletin (2003), 26(10), 1379-1383
CODEN: BPBLEO; ISSN: 0918-6158
PUBLISHER: Pharmaceutical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Screening using a reporter under the control of the hypoxia-response element (HRE) identified several flavonoids and homoisoflavonoids that inhibit the activation of HRE under hypoxic conditions. Among various

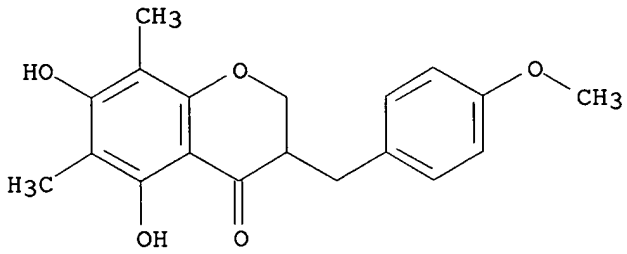
compds., isorhamnetin, luteolin, quercetin, and Me ophiopogonanone B (MOB) were effective at 3 to 9 μg/mL in inhibiting the reporter activity. The expression of vascular endothelial growth factor (VEGF) mRNA during hypoxia was also inhibited by MOB in HepG2 cells, but the EDs were 10 to 20 μg/mL. MOB caused destabilization of hypoxia-inducible factor (HIF)-1α, as revealed by Western blotting, that was dependent on proteasome activity and the tumor suppressor, p53. The tubular formation and migration of human umbilical vein endothelial cells was also inhibited by MOB. MOB is expected to act as an inhibitor of angiogenesis.

IT **74805-91-7P**, Methyl ophiopogonanone B
RL: NPO (Natural product occurrence); PAC (Pharmacological activity); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation); USES (Uses)
(inhibition of HIF-1α VEGF production by flavonoids)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2003:124830 CAPLUS

DOCUMENT NUMBER: 139:210790

TITLE: Homoisoflavonoids from Ophiopogon japonicus Ker-Gawler

AUTHOR(S): Hoang Anh, Nguyen Thi; Van Sung, Tran; Porzel, Andrea; Franke, Katrin; Wessjohann, Ludger A.

CORPORATE SOURCE: Institute of Chemistry, National Centre for Natural Sciences and Technology, Hanoi, Vietnam

SOURCE: Phytochemistry (Elsevier) (2003), 62(7), 1153-1158
CODEN: PYTCAS; ISSN: 0031-9422

PUBLISHER: Elsevier Science Ltd.

DOCUMENT TYPE: Journal

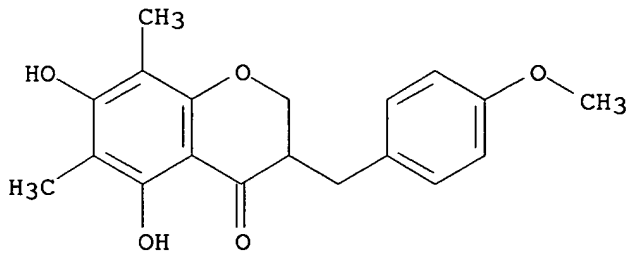
LANGUAGE: English

AB From the Et acetate extract of the tuberous roots of Ophiopogon japonicus (Liliaceae) eight known and five new homoisoflavonoidal compds. were isolated. The new compds. are 5,7-dihydroxy-8-methoxy-6-methyl-3-(2'-hydroxy-4'-methoxybenzyl)chroman-4-one (1), 7-hydroxy-5,8-dimethoxy-6-methyl-3-(2'-hydroxy-4'-methoxybenzyl)chroman-4-one (2), 5,7-dihydroxy-6,8-dimethyl-3-(4'-hydroxy-3'-methoxybenzyl)chroman-4-one (3), 2,5,7-trihydroxy-6,8-dimethyl-3-(3',4'-methylenedioxybenzyl)chroman-4-one (4) and 2,5,7-trihydroxy-6,8-dimethyl-3-(4'-methoxybenzyl)chroman-4-one (5). Their structures have been elucidated by mass and NMR spectroscopy. Compds. 4 and 5 are the first isolated homoisoflavonoids with a hemiacetal function at position 2.

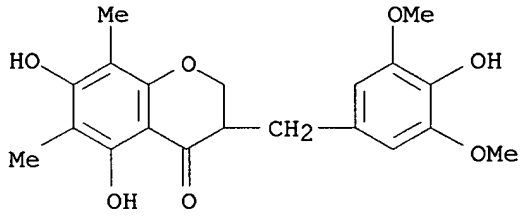
IT **74805-91-7**, Methylophiopogonanone B **212201-12-2**, 5,7-Dihydroxy-6,8-dimethyl-3-(4'-hydroxy-3',5'-dimethoxybenzyl)chroman-4-one
RL: NPO (Natural product occurrence); BIOL (Biological study); OCCU (Occurrence)

(homoisoflavonoids from Ophiopogon japonicus)
RN 74805-91-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

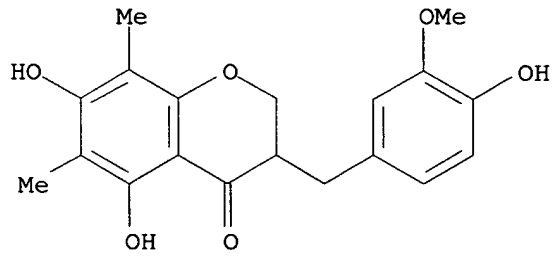


RN 212201-12-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxy-3,5-dimethoxyphenyl)methyl]-6,8-dimethyl- (9CI) (CA INDEX NAME)



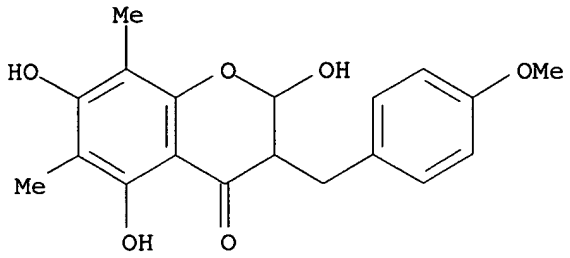
IT **588706-68-7**, 5,7-Dihydroxy-6,8-dimethyl-3-(4'-hydroxy-3'-methoxybenzyl)chroman-4-one **588706-70-1**, 2,5,7-Trihydroxy-6,8-dimethyl-3-(4'-methoxybenzyl)chroman-4-one
RL: NPO (Natural product occurrence); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)
(homoisoflavonoids from Ophiopogon japonicus)
RN 588706-68-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxy-3-methoxyphenyl)methyl]-6,8-dimethyl- (9CI) (CA INDEX NAME)

Currently available stereo shown.



RN 588706-70-1 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-2,5,7-trihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).
Currently available stereo shown.



REFERENCE COUNT: 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

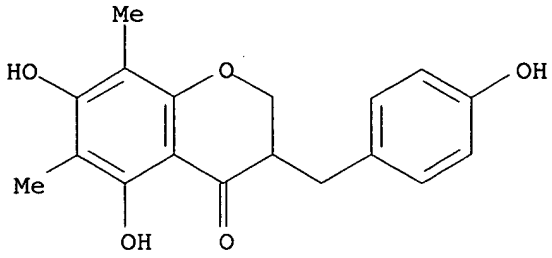
L4 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:132098 CAPLUS
DOCUMENT NUMBER: 136:330403
TITLE: Bioactive homoisoflavones from Vietnamese coriander or pak pai (Polygonatum odoratum)
AUTHOR(S): Vastano, Bret C.; Rafi, M. Mohamed; DiPaola, Robert S.; Zhu, Nanqun; Ho, Chi-Tang; Rella, Anthony T.; Ghai, Geetha; Rosen, Robert T.
CORPORATE SOURCE: Center for Advanced Food Technology, and Department of Food Science, Cook College, Rutgers, The State University of New Jersey, New Brunswick, NJ, 08901-8520, USA
SOURCE: ACS Symposium Series (2002), 803(Quality Management of Nutraceuticals), 269-280
CODEN: ACSMC8; ISSN: 0097-6156
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The roots of Polygonatum odoratum were screened for compds. which induce apoptosis in breast cancer cell lines. The powdered roots were extracted with methanol and Et acetate. The Et acetate fraction was then subjected to bioassay directed fractionation using silica gel column chromatog. Bcl-2 protein, a regulator of apoptosis, was assessed by immunoblot. The active fraction was eluted with 30:1 CHCl3/CH3OH and was rechromatographed on a second silica gel column. Elution with 20:80 hexanes/chloroform yielded the active fraction which was purified using semipreparative HPLC. 2 Compds. were identified. These include 2,3-dihydro-3-[(15-hydroxyphenyl)methyl]-5,7-dihydroxy-6-methyl-8-methoxy-4H-1-benzopyran-4-one and 2,3-dihydro-3-[(15-hydroxyphenyl)-methyl]-5,7-dihydroxy-6,8-dimethyl-4H-1-benzopyran-4-one.

IT **189264-18-4P**
RL: PRP (Properties); PUR (Purification or recovery); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(homoisoflavones from Vietnamese coriander, isolation, structure, and effect on apoptosis in breast cancer)

RN 189264-18-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).
Currently available stereo shown.



REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2001:581715 CAPLUS
DOCUMENT NUMBER: 135:147415
TITLE: Polygonum odoratum extracts for prevention and treatment of cancer
INVENTOR(S): Rosen, Robert T.; Ho, Chi-Tang; Dipaola, Robert S.; Rafi, Mohammed; Ghai, Geetha; Vastano, Bret C.
PATENT ASSIGNEE(S): Rutgers, the State University, USA
SOURCE: PCT Int. Appl., 15 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001056580	A1	20010809	WO 2001-US3064	20010131

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

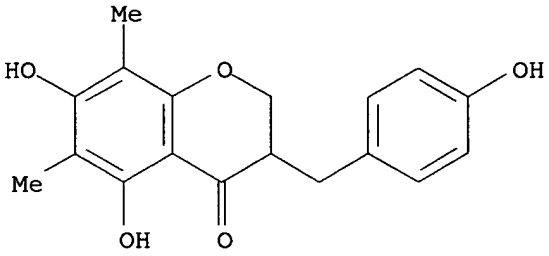
PRIORITY APPLN. INFO.: US 2000-178950P P 20000201

AB Methods for prevention and treatment of cancer comprise exts. of P. odoratum or compds. isolated from the exts. Thus, 2,3-dihydro-3-[(4-hydroxyphenol)methyl]-5,7-dihydroxy-6-methyl-8-methoxy-4H-1-benzopyran-4-one (I) was isolated and purified from P. odoratum exts. The ability of I to induce bcl-2 phosphorylation was examined by Western blot anal. The presence of bcl-2 and phosphorylated bcl-2 proteins was detected by using a monoclonal bcl-2 primary antibody and a secondary goat anti-mouse HRP-conjugated antibody. Control breast cancer MCF-7 cells treated with vehicle (alc.) had no detectable phosphorylated bcl-2. I induces bcl-2 phosphorylation in cancer cells, results consistent with the effects of a known chemotherapeutic agent, paclitaxel, in cancer cells.

IT **189264-18-4**
RL: BAC (Biological activity or effector, except adverse); BOC (Biological occurrence); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); OCCU (Occurrence); USES (Uses)
(Polygonum odoratum exts. for prevention and treatment of cancer)

RN 189264-18-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).
Currently available stereo shown.



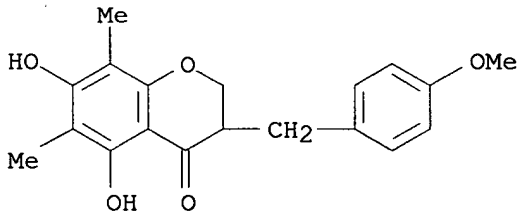
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1998:422060 CAPLUS
DOCUMENT NUMBER: 129:200478
TITLE: Cytotoxic components of Ophiopogonis Tuber
AUTHOR(S): Takatsuki, Satoshi; Narui, Takao; Maeyama, Akiko; Asano, Ryuya; Abuki, Hideo; Hiraga, Yukio; Okuyama, Toru
CORPORATE SOURCE: National Inst. Health Sciences, Tokyo, 158, Japan
SOURCE: Natural Medicines (Tokyo) (1998), 52(2), 145-150
CODEN: NMEDEO; ISSN: 1340-3443
PUBLISHER: Japanese Society of Pharmacognosy
DOCUMENT TYPE: Journal
LANGUAGE: Japanese

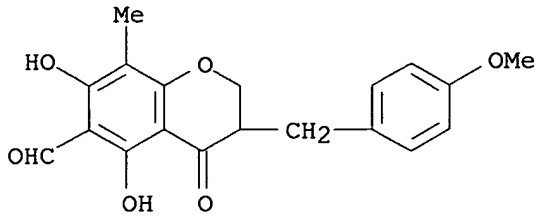
AB Nine compds. were isolated from an AcOEt extract of Ophiopogonis Tuber and some of them in previous reports showed a strong cytotoxic activity on HeLa-S3 cell. Two of them were new compds. and their structures were established as 7,8-dihydroxy-6-methyl-3-(2,4-dimethoxybenzyl)chroman-4-one and 5,7-dihydroxy-6,8-dimethyl-3-(hydroxy-3,5-dimethoxybenzyl)chroman-4-one by their 1H-NMR, 13C-NMR and HR-MS spectra. The original plant of the crude drug used in this experiment was identified as Ophiopogon chekiangensis by microscopic examination

IT **212201-07-5 212201-09-7 212201-12-2**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); OCCU (Occurrence)
(cytotoxic components of Ophiopogonis Tuber)

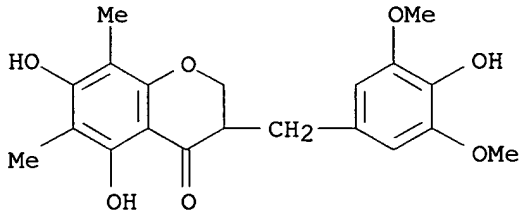
RN 212201-07-5 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl- (9CI) (CA INDEX NAME)



RN 212201-09-7 CAPLUS
CN 2H-1-Benzopyran-6-carboxaldehyde, 3,4-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-8-methyl-4-oxo- (9CI) (CA INDEX NAME)



RN 212201-12-2 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxy-3,5-dimethoxyphenyl)methyl]-6,8-dimethyl- (9CI) (CA INDEX NAME)



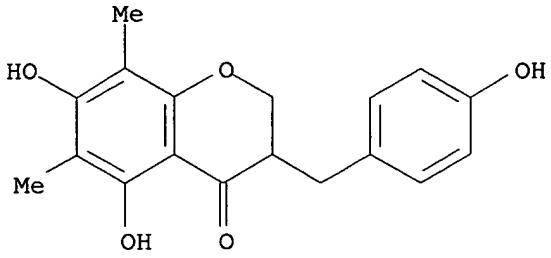
L4 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1997:188100 CAPLUS
DOCUMENT NUMBER: 126:314768
TITLE: Benzoquinones, a homoisoflavanone and other constituents from Polygonatum alte-lobatum
AUTHOR(S): Huang, Pao-Lin; Gan, Kim-Hong; Wu, Ru-Rong; Lin, Chun-Nan
CORPORATE SOURCE: Sch. Pharmacy, Kaohsiung Med. Coll., Kaohsiung, 807, Taiwan
SOURCE: Phytochemistry (1997), 44(7), 1369-1373
CODEN: PYTCAS; ISSN: 0031-9422
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English

AB From the rhizomes of Polygonatum alte-lobatum, two new homologous series of 1,4-benzoquinones, polygonaquinones A and B, a novel homoisoflavanone, a new gentrogenin glycoside and 13 known compds. were isolated and characterized. The structures of the new compds. were determined as two homologous series of three 2,5-dihydroxy-3-methyl-6-alkyl-1,4-benzoquinones and three 2-hydroxy-3-methyl-6-alkyl-1,4-benzoquinones, with chain lengths C21 to C23, and 4',5,7-trihydroxy-6,8-dimethylhomoisoflavanone and gentrogenin 3-O-β-D-glucopyranosyl(1→2)-{β-D-xylopyranosyl(1→3)}-β-D-glucopyranosyl(1→4)-β-D-galactopyranoside.

IT **189264-18-4P**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); PRP (Properties); PUR (Purification or recovery); BIOL (Biological study); OCCU (Occurrence); PREP (Preparation)
(benzoquinones, a homoisoflavanone and other constituents from Polygonatum alte-lobatum)

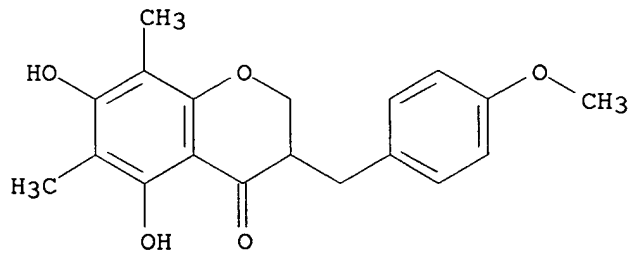
RN 189264-18-4 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-hydroxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).
Currently available stereo shown.



L4 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1991:68919 CAPLUS
DOCUMENT NUMBER: 114:68919
TITLE: Comparative studies on the constituents of ophiopogonis tuber and its congeners. Part V. Studies on the constituents of the subterranean part of Ophiopogon chekiangensis K. Kimura et H. Migo
AUTHOR(S): Watanabe, Yoshiaki; Hirai, Yasuaki; Sanada, Shuichi; Ida, Yoshiteru; Tanaka, Toshihiro; Shoji, Junzo
CORPORATE SOURCE: Sch. Pharm. Sci., Showa Univ., Tokyo, 142, Japan
SOURCE: Shoyakugaku Zasshi (1990), 44(2), 117-21
CODEN: SHZAAY; ISSN: 0037-4377
DOCUMENT TYPE: Journal
LANGUAGE: English
GI For diagram(s), see printed CA Issue.
AB Chemical constituents of the subterranean parts of O. chekiangensis (Liliaceae) were examined from a pharmacognostic aspect, and were compared with those of O. japonicus and O. ohwii previously studied. Isolated were 13 known compds., 6 steroidal glycosides, 7 homoisoflavonoids and a new steroidal glycoside, the structure of which was characterized as I on the basis of its chemical and spectroscopic data. The results suggest that chemotaxonomically O. chekiangensis is identical with neither O. japonicus nor O. ohwii, though it is more closely related to the latter species than the former.
IT **74805-91-7**, Methylophiopogonanone B
RL: BIOL (Biological study)
(of Ophiopogon chekiangensis tubers and congeners)
RN 74805-91-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

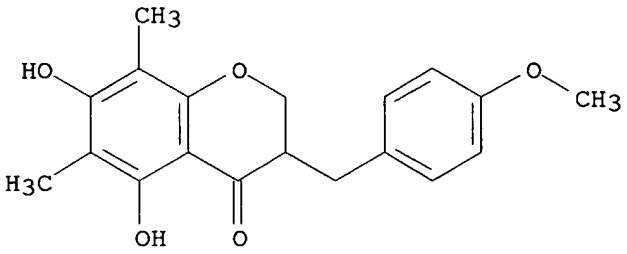
Rotation (-).



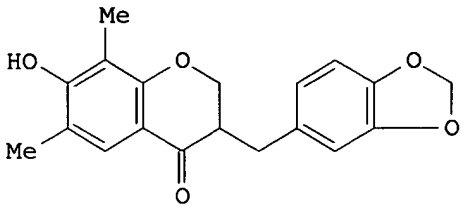
L4 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1989:141636 CAPLUS
DOCUMENT NUMBER: 110:141636
TITLE: Chemical studies on the components of Shenmaisan II. HPLC assay for homoisoflavonoids of Ophiopogon in

Shenmaisan
AUTHOR(S): Zhu, Yongxin; Yan, Kedong; Tu, Guoshi
CORPORATE SOURCE: Natl. Inst. Control Pharm. Biol. Prod., Beijing, Peop. Rep. China
SOURCE: Yaowu Fenxi Zazhi (1988), 8(6), 343-4
CODEN: YFZADL; ISSN: 0254-1793
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
AB The homoisoflavonoids methylophiopogonanone A and B were extracted with Et2O from decoction of Shenmaisan containing Ophiopogon japonicus roots and determined by HPLC, using MeOH-H2O-MeCN (64:38:26) as the mobile phase and detection at 297 nm; the recovery was 102.0 and 101.2%, resp., and the coefficient of variation was <1.30%.
IT **74805-91-7**, Methylophiopogonanone B
RL: ANT (Analyte); ANST (Analytical study)
(determination of, in Shenmaisan (Ophiopogon japonicus), by HPLC)
RN 74805-91-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

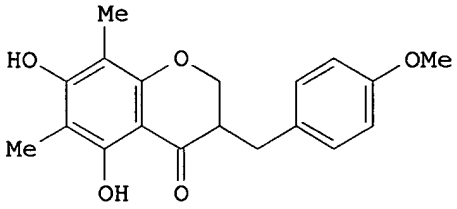
Rotation (-).



L4 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1988:173631 CAPLUS
DOCUMENT NUMBER: 108:173631
TITLE: Separation and determination of homoisoflavonoids in Ophiopogon japonicus by reversed-phase high-performance liquid chromatography
AUTHOR(S): Zhu, Yongxin; Yan, Kedong; Tu, Guoshi
CORPORATE SOURCE: Natl. Inst. Control Pharm. Biol. Prod., Minist. Health, Beijing, Peop. Rep. China
SOURCE: Journal of Chromatography (1988), 437(1), 265-7
CODEN: JOCRAM; ISSN: 0021-9673
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I



II

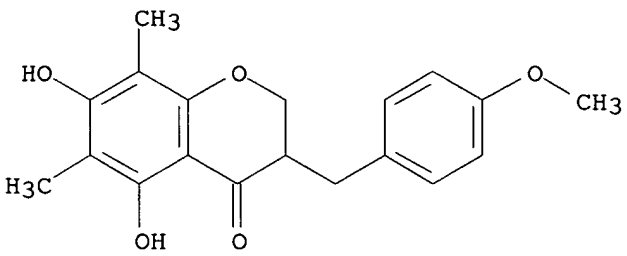
AB Two main homoisoflavonoids, methylophiopogonanone A (I) and methylophiopogonanone B (II), of the Chinese medicinal plant O. japonica Ker-Gawl were determined by reversed-phase HPLC with a YWG-C18-packed column (250 + 4 mm), MeOH-H2O-MeCN (64:38:26) mobile phase at 1 mL/min, UV monitoring at 297 nm. MeOH exts. of powdered plant material were used. Recoveries for I and II were 96.44-98.02 and 92.78-104.5%, resp., and the corresponding curves were linear with samples of 0.05-0.5 and 0.05-0.48 μg.

IT **74805-91-7**, Methylophiopogonanone B
RL: ANT (Analyte); ANST (Analytical study)
(determination of, of Ophiopogonanone japonicus by reversed-phase HPLC)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



L4 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1988:52811 CAPLUS

DOCUMENT NUMBER: 108:52811

TITLE: Isolation and identification of homoisoflavanones from Maidong (Ophiopogon japonicus (Thunb) Ker-Gawal)

AUTHOR(S): Zhu, Yongxin; Yan, Kedong; Tu, Guoshi

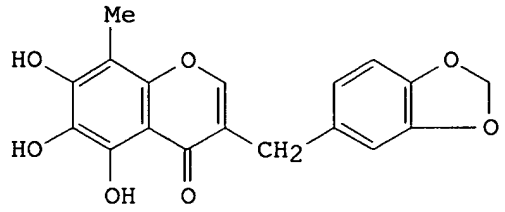
CORPORATE SOURCE: Natl. Inst. Control Pharm. Biol. Prod., Beijing, Peop. Rep. China

SOURCE: Yaoxue Xuebao (1987), 22(9), 679-84
CODEN: YHHPAL; ISSN: 0513-4870

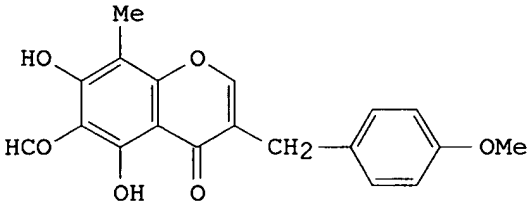
DOCUMENT TYPE: Journal

LANGUAGE: Chinese

GI



I



II

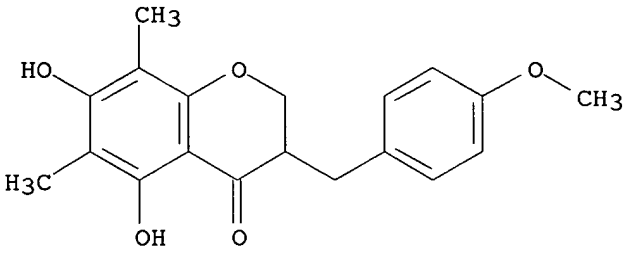
AB Five homoisoflavonoids isolated from tubers of O. japonicus were identified by phys. and chemical properties and spectral data. Three are homoisoflavanones: 6-aldehydoisoophiopogonanone A, methylophiopogonanone A, and methylophiopogonanone B. Two are new homoisoflavones, named 6-aldehydoisoophiopogonone A (I) and 6-aldehydoisoophiopogonone B (II), resp.

IT **74805-91-7**, Methylophiopogonanone B
RL: BIOL (Biological study)
(from Ophiopogon japonicus)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



L4 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1986:183269 CAPLUS

DOCUMENT NUMBER: 104:183269

TITLE: Comparative studies on the constituents of ophiopogonis tuber and its congeners. IV. Studies on the homoisoflavonoids of the subterranean part of Ophiopogon ohwii Okuyama and O. jaburan (Kunth) Lodd

AUTHOR(S): Watanabe, Yoshiaki; Sanada, Shuichi; Ida, Yoshiteru; Shoji, Junzo

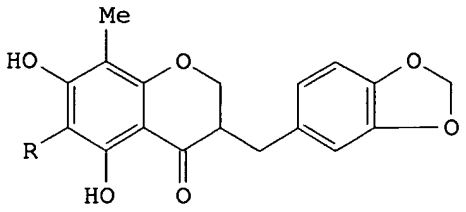
CORPORATE SOURCE: Sch. Pharm. Sci., Showa Univ., Tokyo, 142, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1985), 33(12), 5358-63
CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

GI



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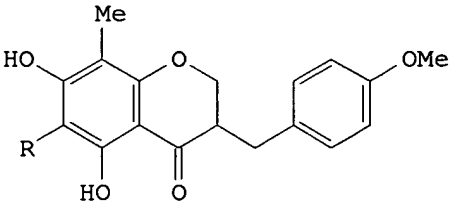
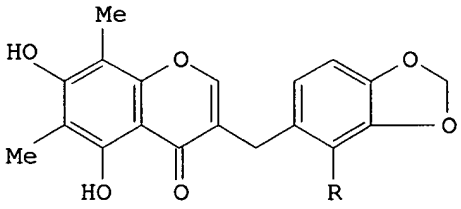


II



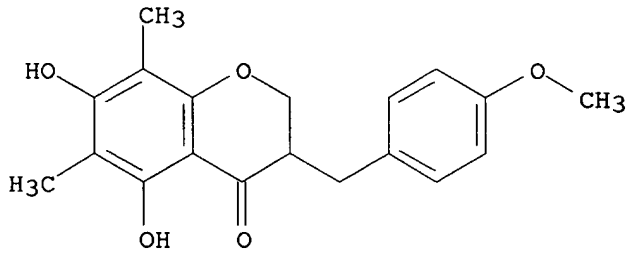
III

AB Six homoisoflavonoidal compds., tentatively named NE-I (I R = CHO), NE-II (II, R = CHO), NE-III (I, R = Me), Ne-IV (II, R = Me), NE-V (III, R = H) and NE-VI (III, R = OH), were isolated from the ether-soluble fraction of the subterranean part of O. ohwii (Lilaceae) and 4 homoisoflavonoidal compds., tentatively named JE-I, JE-III and JE-IV, were isolated from that of O. jaburan and their structures were determined The structures of JE-I, JE-II, JE-III and JE-IV were elucidated to be 3,5-dihydroxy-7-methoxy-6-methyl-3-(4-hydroxybenzyl)chroman-4-one, 5-hydroxy-7-methoxy-6-methyl-3-(3,4-dihydroxybenzyl)chromone, 5,7-dihydroxy-6-methyl-3-(4-hydroxybenzyl)chromone, and 5,7-dihydroxy-3-(4-hydroxybenzyl)chromone, resp.

IT **74805-91-7 88700-30-5**
RL: BIOL (Biological study)
(from Ophiopogon ohwii, structure of)

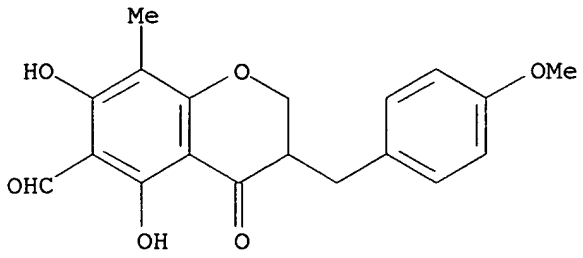
RN 74805-91-7 CAPLUS
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



RN 88700-30-5 CAPLUS
CN 2H-1-Benzopyran-6-carboxaldehyde, 3,4-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-8-methyl-4-oxo-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



L4 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1984:73836 CAPLUS
DOCUMENT NUMBER: 100:73836
TITLE: Studies on the components of Ophiopogon roots (China). I
AUTHOR(S): Kaneda, Norito; Nakanishi, Hiroyuki; Kuraishi, Tadayuki; Katori, Tatuhiko
CORPORATE SOURCE: Cent. Res. Lab., SS Pharm. Co. Ltd., Narita, 286, Japan
SOURCE: Yakugaku Zasshi (1983), 103(11), 1133-9
CODEN: YKKZAJ; ISSN: 0031-6903
DOCUMENT TYPE: Journal
LANGUAGE: Japanese
GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

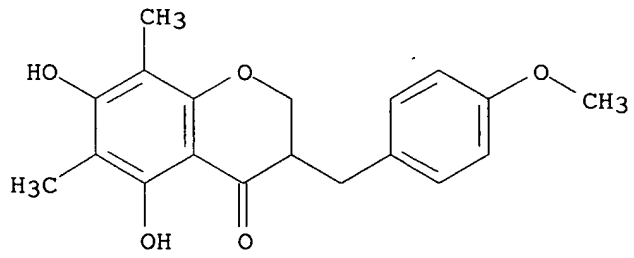
AB The components of Oiphiopogon roots (China) was investigated. In addition to the reported homoisoflavanoids in O. japonicus (methylophiopogonanone A [74805-92-8], B [**74805-91-7**] and ophiopogonanone A [75239-63-3]), 8 new compds., 5 homoisoflavanoids (I [88700-29-2], II [**88700-30-5**], III [88700-31-6], IV [88700-32-7], and V [88700-33-8]), an amide (VI) [88700-34-9] and 2 borneol glycosides VII [88763-93-3] and VIII) [88700-35-0] were isolated.

IT **74805-91-7 88700-30-5**
RL: BOC (Biological occurrence); BSU (Biological study, unclassified); BIOL (Biological study); OCCU (Occurrence)
(of Ophiopogon japonicus roots)

RN 74805-91-7 CAPLUS

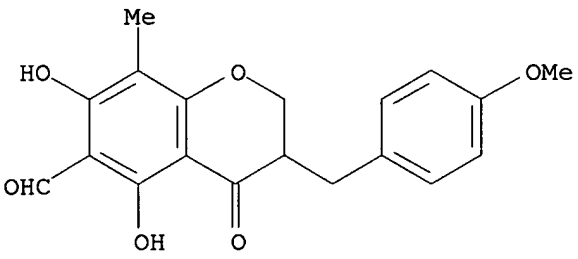
CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).

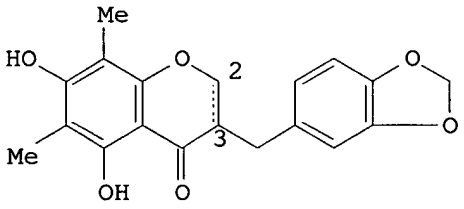


RN 88700-30-5 CAPLUS
CN 2H-1-Benzopyran-6-carboxaldehyde, 3,4-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-8-methyl-4-oxo-, (-)- (9CI) (CA INDEX NAME)

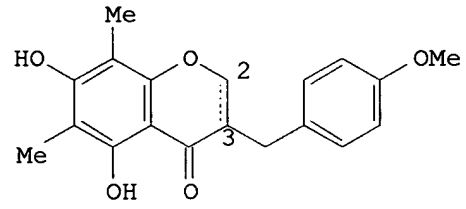
Rotation (-).



L4 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 1980:528749 CAPLUS
DOCUMENT NUMBER: 93:128749
TITLE: Studies on the constituents of Ophiopogonis tuber. V. Isolation of a novel class of homoisoflavonoids and determination of their structures. 1
AUTHOR(S): Tada, Akihiro; Kasai, Ryoji; Saitoh, Tamotsu; Shoji, Junzo
CORPORATE SOURCE: Sch. Pharm. Sci., Showa Univ., Tokyo, 142, Japan
SOURCE: Chemical & Pharmaceutical Bulletin (1980), 28(5), 1477-84
CODEN: CPBTAL; ISSN: 0009-2363
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



I, 2,3-satd.
III, 2,3-unsatd.



II, 2,3-satd.
IV, 2,3-unsatd.

AB The new homoisoflavonoidal compds. methylophiopogonanone A (I), methylophiopogonanone B (II), methylophiopogonone A (III), and methylophiopogonone B (IV) were isolated from ophiopogonis tubers (tubers of Ophiopogon japonicus var genuinus, Liliaceae) and their structures were shown to be 5,7-dihydroxy-6,8-dimethyl-3-(3,4-methylenedioxybenzyl)-chroman-4-one, 5,7-dihydroxy-6,8-dimethyl-3-(4-methoxybenzyl)-chroman-4-one, 5,7-dihydroxy-6,8-dimethyl-3-(3,4-methylenedioxybenzyl)-chromone, and 5,7-dihydroxy-6,8-dimethyl-3-(4-methoxybenzyl)-chromone, resp. Methylophiopogonones A and B are members of a new class of naturally

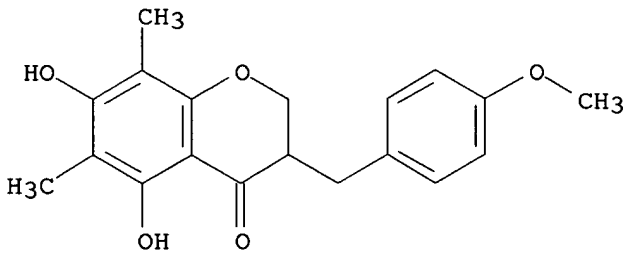
occurring homoisoflavonoidal compds. having a double bond at C2-3.

IT **74805-91-7**
RL: BIOL (Biological study)
(Ophiopogon isoflavonoid, structure of)

RN 74805-91-7 CAPLUS

CN 4H-1-Benzopyran-4-one, 2,3-dihydro-5,7-dihydroxy-3-[(4-methoxyphenyl)methyl]-6,8-dimethyl-, (-)- (9CI) (CA INDEX NAME)

Rotation (-).



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